

AS
C-2
8. (Amended) An apparatus for three-dimensional measurement, evaluation, and grading of fabric/textile structure/garment appearance according to claim 7, including means for separately shining four inclined parallel, different light beams evenly distributed with respect to the camera.

IN THE ABSTRACT

Amendments to the abstract:

Abstract

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A method of three dimensional measurement, evaluation, and grading system for fabric/textile structure/garment appearance, based on values P and Q, is carried out using a fixed digital camera positioned above a piece of the fabric, shining at least two different parallel light beams from inclined directions onto the surface of the fabric and capturing different reflected images of the surface with the camera. The captured images are analysed to derive certain parameters relevant to the appearance. In particular, values of $P + Q$ may be used in a grading evaluation, where P and Q are summations of the surface gradients for a plurality of evenly distributed points in an x direction and in a y direction of the surface, respectively.
